# Mathematics Number Knowledge Grade Level Expectations (IKAN) End of Kindergarten Number Knowledge Expectations

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Counting Interview** | | | | | **Written Assessment** | | | | |
| NO PARTS MASTERED | FNWS/ BNWS COUNTING MASTERED, BUT R&S NOT MASTERED | FNWS/BNWS/  R&S to 20 | FNWS/BNWS/  R&S to 120 | FNWS/BNWS/  R&S to 1000 | Stage 4  AC | Stage 5  EA | Stage 6  AA | Stage 7  AM | Stage 8  AP |

At Risk Cause for Concern

Achieving at or above expectations

High Achievers

# End of 1st Grade Number Knowledge Expectations

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Counting Interview** | | | | | **Written Assessment** | | | | |
| NO PARTS MASTERED | FNWS/ BNWS COUNTING MASTERED, BUT R&S NOT MASTERED | FNWS/BNWS/  R&S to 20 | FNWS/BNWS/  R&S to 120 | FNWS/BNWS/  R&S to 1000 | Stage 4  AC | Stage 5  EA | Stage 6  AA | Stage 7  AM | Stage 8  AP |

At Risk Cause for Concern

Achieving at or above expectations

High Achievers

# End of 2nd Grade Number Knowledge Expectations

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Counting Interview** | | | | | **Written Assessment** | | | | |
| NO PARTS MASTERED | FNWS/ BNWS COUNTING MASTERED, BUT R&S NOT MASTERED | FNWS/BNWS/  R&S to 20 | FNWS/BNWS/  R&S to 120 | FNWS/BNWS/  R&S to 1000 | Stage 4  AC | Stage 5  EA | Stage 6  AA | Stage 7  AM | Stage 8  AP |

At Risk Cause for

Concern

Achieving at or above expectations

High Achievers

# End of 3rd Grade Number Knowledge Expectations

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Counting Interview** | | | | | **Written Assessment** | | | | |
| NO PARTS MASTERED | FNWS/BNWS COUNTING MASTERED, BUT R&S NOT MASTERED | FNWS/BNWS/  R&S to 20 | FNWS/BNWS/  R&S to 120 | FNWS/BNWS/  R&S to 1000 | Stage 4  AC | Stage 5  EA | Stage 6  AA | Stage 7  AM | Stage 8  AP |

At Risk Cause for

Concern

Achieving at or above expectations

High Achievers

# End of 4th Grade Number Knowledge Expectations

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Counting Interview** | | | | | **Written Assessment** | | | | |
| NO PARTS MASTERED | FNWS/BNWS COUNTING MASTERED, BUT R&S NOT MASTERED | FNWS/BNWS/  R&S to 20 | FNWS/BNWS/  R&S to 120 | FNWS/BNWS/  R&S to 1000 | Stage 4  AC | Stage 5  EA | Stage 6  AA | Stage 7  AM | Stage 8  AP |

At Risk Cause for

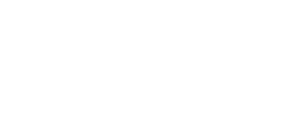
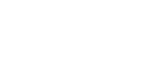
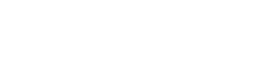
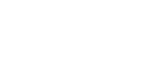
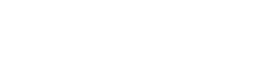
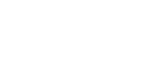
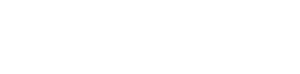
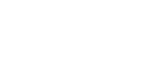
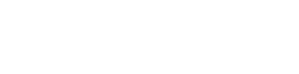
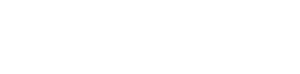
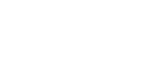
Concern

Achieving at or above expectations

High Achievers

# End of 5th Grade Number Knowledge Expectations

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Counting Interview** | | | | | **Written Assessment** | | | | |
| NO PARTS MASTERED | FNWS/BNWS COUNTING MASTERED, BUT R&S NOT MASTERED | FNWS/BNWS/  R&S to 20 | FNWS/BNWS/  R&S to 120 | FNWS/BNWS/  R&S to 1000 | Stage 4  AC | Stage 5  EA | Stage 6  AA | Stage 7  AM | Stage 8  AP |



At Risk Cause for

Concern

Achieving at or above expectations

High Achievers

# End of 6th Grade Number Knowledge Expectations

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Counting Interview** | | | | | **Written Assessment** | | | | |
| NO PARTS MASTERED | FNWS/BNWS COUNTING MASTERED, BUT R&S NOT MASTERED | FNWS/BNWS/  R&S to 20 | FNWS/BNWS/  R&S to 120 | FNWS/BNWS/  R&S to 1000 | Stage 4  AC | Stage 5  EA | Stage 6  AA | Stage 7  AM | Stage 8  AP |

Achieving at

Or above

expectation

Cause for

Concern

At Risk

High

Achievers

# End of 7th Grade Number Knowledge Expectations

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Counting Interview** | | | | | **Written Assessment** | | | | |
| NO PARTS MASTERED | FNWS/BNWS COUNTING MASTERED, BUT R&S NOT MASTERED | FNWS/BNWS/  R&S to 20 | FNWS/BNWS/  R&S to 120 | FNWS/BNWS/  R&S to 1000 | Stage 4  AC | Stage 5  EA | Stage 6  AA | Stage 7  AM | Stage 8  AP |

Achieving

At Or

above

expectation

Cause for

Concern

At Risk

High

Achievers

# End of 8th Grade Number Knowledge Expectations

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Counting Interview** | | | | | **Written Assessment** | | | | |
| NO PARTS MASTERED | FNWS/BNWS COUNTING MASTERED, BUT R&S NOT MASTERED | FNWS/BNWS/  R&S to 20 | FNWS/BNWS/  R&S to 120 | FNWS/BNWS/  R&S to 1000 | Stage 4  AC | Stage 5  EA | Stage 6  AA | Stage 7  AM | Stage 8  AP |

Achieving

At

Expectation

Cause for

Concern

At Risk

# Number Knowledge Expectations

The shaded stages in the diagrams above are an indication of the expected levels of achievement. The expectation is that by the end of the year the majority of students will be working at this level, with most of the accompanying knowledge known, and students close to being ready to work at the next stage. A range of achievement is normal and expected at each year level. These expectations, and the indications of when to consider students to be “At Risk”, “Cause for

Concern” or “High Achievers”, are a guide only. They are intended to assist principals and teachers in setting high, yet attainable expectations, and develop teaching and learning programs for all students at each year in their elementary and middle school. These expectations are for

schools with everything in place for numeracy teaching and learning. Some schools take two years of professional development before everything is in place, others take longer.

Students rated as **“At Risk”** are those who are sufficiently below expectations that their future learning in mathematics is in jeopardy. Students rated “at risk” require special teaching and interventions, modified classroom programs, and extra support to continue their development and growth in the area of mathematics. The support required is likely to be beyond what can be reasonably expected from their classroom teacher alone.

Students rated as **“Cause for Concern”** are those who are below expectations. However, these students are at a stage where is it reasonable to expect classroom teachers to be able to move them to the expected stage, on grade level, by the end of the year.

**“High achievers”** are those students who are sufficiently above expectations that they may require special teaching, modified classroom programs and extra support to continue their development. The support required could be beyond what can be reasonably expected from the classroom teacher alone.

The IKAN assessment has been divided into five parts. Each part assesses the four knowledge domains. – Number Sequence and Order, Fractions, Place Value, and Basic Facts.

Part One: Advanced Counting AC (Stage 4) Part Two: Early Additive EA (Stage 5)

Part Three: Advanced Additive AA (Stage 6) Part Four: Advanced Multiplicative AM (Stage 7) Part Five: Advanced Proportional AP (Stage 8)